Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov/Dec - 2017**

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| **Code :** | **17AG1001** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **PRINCIPLES OF AGRONOMY AND AGRICULTURAL HERITAGE** | **Max. marks :** | **100** |

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| **Q. No.** | **Questions** | **Course outcome** | **Marks** |
| **PART-A(10X1=10 MARKS)** | |  | |
| 1. | Define Agriculture? | CO1 | 1 |
| 2. | Define growth? | CO1 | 1 |
| 3. | Define seed? | CO1 | 1 |
| 4. | What is tillage? | CO2 | 1 |
| 5. | Define soil fertility? | CO2 | 1 |
| 6. | What is bio fertilizer? | CO2 | 1 |
| 7. | Name two cereal crops? | CO2 | 1 |
| 8. | Define integrated nutrient management? | CO2 | 1 |
| 9. | Give any two weather elements influencing crop production | CO2 | 1 |
| 10. | Give any two commercial crops cultivated in India | CO2 | 1 |

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| **PART B(5 X 3= 15 MARKS)** | | | |
| 11. | Explain biological and economical yield of any two cereal crops | CO1 | 3 |
| 12. | Classify the crops based on the life span with examples? | CO1 | 3 |
| 13. | What is the criteria of essential elements and enlist the secondary nutrients | CO2 | 3 |
| 14. | Discuss the term ship to mouth during 1950 | CO3 | 3 |
| 15. | Brief discuss the traditional irrigation methods? | CO3 | 3 |

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| **PART C(5 X 15= 75 MARKS)** | | | | |
| 16. | a. | Give any five botanical classifications with one example. | CO1 | 5 |
| b. | Classify the plants based on special purpose with one example (any five). | CO1 | 5 |
| c. | Enlist any five agronomic classifications with one example. | CO1 | 5 |
| (OR) | | | | |
| 17. | a. | Brief explain the biometric and yield attributing characters of field crops. | CO2 | 10 |
| b. | Enlist the characteristic of quality seeds. | CO2 | 5 |
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| 18. | a. | What is vegetative propagation? | CO2 | 3 |
| b. | Explain the stem and root methods of propagation with examples. | CO2 | 9 |
| c. | Name three artificial methods of vegetative propagation. | CO2 | 3 |
| (OR) | | | | |
| 19. | a. | Explain in detail about the methods of sowing/ planting with examples. | CO2 | 10 |
| b. | How the plant density influence the crop yield? | CO2 | 5 |
|  |  |  |  |  |
| 20. | a. | Define tilth. | CO2 | 2 |
| b | What are the different types of tillage? | CO2 | 8 |
| c | Explain conservation tillage and minimum tillage. | CO2 | 5 |
| (OR) | | | | |
| 21. | a. | What are the objectives of tillage? | CO2 | 7 |
| b. | Explain special tillage implements with diagrams. | CO2 | 8 |
|  |  |  |  |  |
| 22. | a. | What is soil productivity and how it differs from soil fertility. | CO2 | 3 |
| b. | What is nutrients and classification of crop nutrients with examples? | CO2 | 7 |
| c. | Give the concept of integrated nutrient management. | CO2 | 5 |
| (OR) | | | | |
| 23. | a. | What are the different sources of plant nutrients and name the major and micro nutrients. | CO2 | 9 |
| b. | Give one example of mobile and immobile nutrients in plants. | CO2 | 6 |
|  |  |  |  |  |
| 24. | a. | What is manure? and enlist the differences of manure and fertilizer. | CO2 | 6 |
| b. | How the bulky organic manures improve the soil properties? | CO2 | 6 |
| c. | Give one example of green manure and how it is cultivated in agricultural land. | CO2 | 3 |
| (OR) | | | | |
| 25. | a. | Describe the history of agriculture development in India. | CO3 | 10 |
| b. | Brief about the traditional water lifting devices. | CO3 | 5 |

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